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# TREASURY DEPARTMENTMIC

# PUBLIC HEALTH REPORTS

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BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 44 :: :: NUMBER 4

JANUARY 25 - - 1929

SPECIAL ARTICLES =

Influenza Prevalence and Mortality in the United States
The Weil-Felix Reaction in Rocky Mountain Spotted Fever
Summary of the Notifiable Diseases in the United States,
1927



UNITED STATES
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1929

### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. R. C. WILLIAMS, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of public health.

The Public Health Reports are intended primarily for distribution to health officers, members of boards or departments of health, and those directly or indirectly engaged in or connected with public health or sanitary work. Articles of general or special interest are issued as reprints from the Public Health Reports or as supplements, and in these forms are available for general distribution to those desiring them.

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# PUBLIC HEALTH REPORTS

VOL. 44

**JANUARY 25, 1929** 

NO. 4

## INFLUENZA PREVALENCE IN THE UNITED STATES

A comparison of reports of the cases of influenza for the weeks ended January 5 and January 12, 1929, indicates that the number of cases is decreasing in all parts of the country except in the West South Central States, in the northerly portion of the South Atlantic States, and in the Northeast.

The peak of the epidemic appears to have been passed in the Pacific States during the week ended December 8, 1928; in the Mountain and West North Central States, December 15; in the East North Central States, December 29; in the East South Central States and the South Atlantic States during the week ended January 5, 1929. The West South Central, Middle Atlantic, and New England States had not reported any decline in the number of cases to January 12, 1929.

The following table shows the total numbers of cases reported in each State from October 14, 1928, to January 12, 1929, inclusive. States from which no reports were received are omitted from the table.

New England:	Cases	South Atlantic—Continued	Cases
Maine	1, 519	West Virginia	30, 181
New Hampshire	188	South Carolina	46, 205
Vermont	954	Georgia	38, 886
Massachusetts	3, 128	Florida.	2, 721
Rhode Island	432	East South Central:	
Connecticut	3, 266	Kentucky	40, 036
Middle Atlantie:	1200	Tennessee	48, 498
New York City	4,317	Alabama	48, 050
New Jersey	5, 331	Mississippi	50, 735
East North Central:	137111	West South Central:	1000
	9, 463	Arkansas	14, 513
Indiana	9,729	Louisiana	12, 071
	0, 989	Oklahoma	31,650
Michigan 2	9, 087	Texas	14, 147
Wisconsin 3	1, 947	Mountain:	
West North Central:	TO U	Montana	17, 465
Minnesota	4,696	Idaho	191
Iowa111	3,550	Wyoming	1, 350
Missouri 3	9, 963	Colorado	6, 267
North Dakota 3	3, 634	New Mexico	6, 578
South Dakota	832	Arizona	4, 584
The second secon	7,000	Utah.	871
	7.642	Pacific:	
South Atlantie	-	A tousing.	3, 106
Delaware	418	Washington	9, 821
Maryland 11		California	45, 904
District of Columbia		Californio	10, 101
Virginia		Total Total	064, 927

<sup>&</sup>lt;sup>1</sup> Includes 112,000 cases estimated, covering 2 weeks. Owing to the incomplete reporting of cases, estimates can not be fairly compared with reports of cases notified.

Estimate, for 1 week only.

<sup>25500°-29-1</sup> 

## MORTALITY OF THE CURRENT INFLUENZA EPIDEMIC

In last week's Public Health Reports, data were presented in tabular form on the mortality of the present influenza outbreak in a group of cities classified according to the geographic divisions of the United States. The mortality data were presented in the form of the excess annual death rates from influenza and pneumonia per 100,000 population, the rates being given by weeks for the period from the first week of November, when the outbreak first manifested itself in an increased mortality on the Pacific Coast, to the week ended January 5, 1929.

Considering all cities together, the excess annual rate for the week ended January 12 was 426, as against 392 for the preceding week. This increase is much less than the increase that occurred in the preceding week and suggests that for the country as a whole the mortality is nearing the peak of the epidemic. It should be noted, however, that, considered in terms of the excess of influenza and pneumonia deaths over the normal seasonal expectancy, the mortality of these cities (about 60) of the United States had not on January 12 begun to decline.

In Figure 1 the excess influenza and pneumonia death rates are shown graphically up to the week ended January 12, 1929.

Up to January 12, the highest mortality for any single week occurred in the cities of the East South Central section, which cities showed an annual excess rate of 1,628 for the week ended January 12. The cities of the Mountain region showed the next highest rate, an excess annual rate of 1,148 per 100,000 for the week ended December 15. By January 12 the excess rate in this region had declined to 126, or almost back to the normal rate. The rate in the Pacific Coast cities is likewise about back to normal. The highest excess annual rate in the Pacific division was 458, experienced in the week ended December 8, less than half of the highest rate in the Mountain cities and less than a third of the rate in the East South Central cities.

In the West South Central cities the maximum excess annual mortality rate thus far experienced in the present outbreak was 821 per 100,000 during the week ended January 12. This rate is only slightly above the rate for the preceding week, suggesting that the mortality in this section has about reached its peak.

In the West North Central and the East North Central cities, the peak of influenza and pneumonia mortality has apparently been reached during the weeks ended December 29 and January 5, respectively. The excess rate in the peak week was less in the West North Central cities than in any division which had, up to January 12, definitely passed the peak. The rate in the peak week in the East

<sup>1</sup> From the Office of Statistical Investigations, United States Public Health Service.

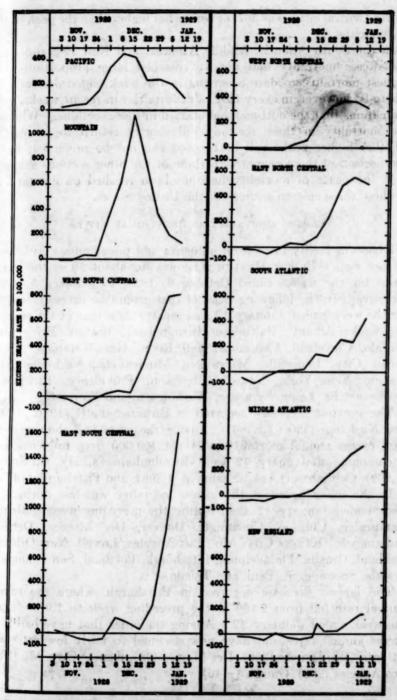


Fig. 1.—Excess mortality from influenza and pneumonia per 100,000 population in cities of various geographic sections of the United States. (Excess over mean of rates in three to four non-epidemic years.)

North Central cities was 567, or somewhat higher than the peak of the Pacific cities.

In the South Atlantic, Middle Atlantic, and New England cities the excess mortality had not yet reached large proportions, the highest mortality to date occurring in the week ended January 12. There is, however, in every case, a definite rise in recent weeks, with indications that the outbreak has started in those sections. Whether the mortality in these sections will shortly return to normal or whether higher peaks will be reached can not be predicted; but a comparison of these curves with those of the other sections suggests that the peaks of mortality had not been reached on January 12 in these three eastern sections of the United States.

### EXCESS MORTALITY IN INDIVIDUAL CITIES

Excess mortality rates from influenza and pneumonia were shown in last week's Public Health Reports for about 50 of the larger cities for the weeks ended October 6, 1928, to January 5, 1929, inclusive. In the following cities of that group the excess mortality for the week ended January 12 was greater than that of the preceding week: Albany, Baltimore, Birmingham, Boston, Bridgeport, Buffalo, Cleveland, Columbus, Fall River, Grand Rapids, Mich., Jersey City, Louisville, Milwaukee, Minneapolis, Nashville, New Haven, New York, Newark, Paterson, Providence, Richmond, Rochester, St. Louis, Syracuse, Washington, and Worcester.

The greatest increases occurred in Birmingham (1,712 to 3,227) and Nashville (330 to 1,366). Among the cities still showing very high excess annual mortality rates per 100,000 from influenza and pneumonia on January 12 were Birmingham (3,227), Cincinnati (1,009), Columbus (1,114), Nashville (1,366), and Pittsburgh (1,071).

In the following cities the excess mortality was less during the week ended January 12 than during the preceding week: Atlanta, Cambridge, Chicago, Cincinnati, Denver, Des Moines, Detroit, Indianapolis, Kansas City, Mo., Los Angeles, Lowell, New Orleans, Oakland, Omaha, Philadelphia, Pittsburgh, Portland, San Francisco, Seattle, Spokane, St. Paul, and Toledo.

The largest decrease occurred in Pittsburgh, where the excess annual rate fell from 2,169 in the preceding week to 1,071 during the week ended January 12. Among the cities that have had high excess annual rates and have now declined to fairly low rates are Atlanta (18), Denver (209), Des Moines (93), Kansas City, Mo. (88), Los Angeles (208), Omaha (-46).

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### ROCKY MOUNTAIN SPOTTED FEVER

### A Preliminary Report on the Weil-Felix Reaction

By A. L. Kerler, Bacteriologist, United States Public Health Service, and R. R. Spencer, Surgeon, United States Public Health Service

Kelly <sup>2</sup> tested the sera from nine cases of Rocky Mountain spotted fever occurring in California, using as antigens a fresh agar culture and a formalized suspension of a strain of B. proteus X<sub>19</sub> obtained from the Hygienic Laboratory at Washington. Eight of these sera did not agglutinate the organism. The serum of one patient, however, taken during the third or fourth week of the disease gave a positive agglutination in a dilution of 1:400 when "the first 24-hour transplant from a stock culture" was employed as antigen. The same specimen of serum gave negative results two days later against "a 24-hour agar culture, a 24-hour glucose agar culture, and a formalized antigen."

So far as we are aware Kelly was the first to perform the Weil-Felix reaction with Rocky Mountain spotted fever sera; and while he recognized his series of tests were not large, he felt that his results suggested "that the Weil-Felix reaction is negative in Rocky Mountain spotted fever and may be of value in differentiating between this disease and typhus fever."

Kelly's observations seemed to support the view held by many regarding the agglutination of B. proteus  $X_{10}$  in typhus sera, namely, that the reaction was a specific one for typhus fever.

The tests recorded herewith show that strains of B. proteus X 19 are agglutinated by the sera of experimental animals and patients suffering from Rocky Mountain spotted fever.

Altogether three strains of B. proteus X<sub>10</sub> were used. The Hygienic Laboratory strain No. 271 has been fully tested for sensitivity against the endemic typhus occurring in the southern United States by Maxcy and has been used extensively for diagnostic purposes. The other two strains used were the Kingsbury strain and the Warsaw strain both obtained from Fletcher<sup>3</sup> of Kuala Lumpur, Federated Malay States. Strain No. 271 and the Warsaw strain are indologenic, while the Kingsbury strain does not produce indol.

Concentrated antigens were prepared with 0.1 per cent formalin, so that when diluted for use to a turbidity-comparable to 500 parts per million of a silica standard the concentration of formalin would be negligible and interference with the reaction reduced to a minimum.

<sup>&</sup>lt;sup>1</sup> A. Leroy Kerlee died February 14, 1928, from Rocky Mountain spotted fever contracted in line of duty at the field laboratory of the U.S. Public Health Service located at Hamilton, Mont.

<sup>&</sup>lt;sup>3</sup> Kelly, F. L.: Weil-Felix Reaction in Rocky Mountain Spotted Fever. Jour. Inf. Dis., vol. 32, No. 3, March, 1923, pp. 223-225.

<sup>&</sup>lt;sup>1</sup> Fletcher, W., and Lessiar, J. E.: Tropical Typhus in the Federated Malay States. Bull. No. 2 of 1925, Institute for Medical Research, Kuala Lumpur, Federated Malay States.

## TEST I (GUINEA PIGS)

A series of 12 guinea pigs were inoculated intraperitoneally with Rocky Mountain spotted fever blood virus on September 15, 1927. Beginning on the first day on which any of the animals showed an elevation of temperature (September 19), and each day thereafter until the fourteenth day after inoculation, about 1 cubic centimeter of blood was drawn from all surviving guinea pigs by heart puncture with a very small needle. Blood was also taken on the nineteenth, the twenty-fourth, and the twenty-ninth days after inoculation. Only four animals lived through the entire course. At no time was a positive test recorded for any of these animals, although all of them developed typical lesions of Rocky Mountain spotted fever. All sera were tested against the Hygienic Laboratory strain No. 271 (the same as that used by Kelly) and the Kingsbury strain of B. proteus X<sub>10</sub>.

### TEST II (RABBITS)

A series of seven rabbits were inoculated intraperitoneally with 1 cubic centimeter of blood virus. Four days later blood was drawn from the ear vein of each, as well as on each succeeding day until the ninth, at which time the temperature of all rabbits had again become normal. Blood was also taken on the fourteenth, nineteenth, and twenty-fourth days after onset.

These sera were tested against two antigens; namely, one prepared from the Kingsbury strain and one from the Warsaw strain. For this reason the rabbit and the guinea pig tests are not entirely comparable.

TABLE 1.—Results of tests on three rabbits

Day after	Day after onset of disease	-	Rabbit No. 3033 (dilution)						-	Rabbit No. 3034 (dilution)						Rabbit No. 3035 (dilution)									
		20	40	80	160	320	640	1, 280	2, 56	0 20	40	80	160	320	640	1, 280	2, 560	20	40	80	160	320	640	1, 280	2, 50
i od mer	{W K W		-		711	411	45	+1	#14	-	-		111	111	LUI	111	SE L	-	1-1	-	TIT	111	111	111	11.1
2	KWK	=	-+	-	11	111	=	=	=	=	=	_	- 1	181	4	1	Ξ		=	-	11.		7	111	13.1
s ullacer	WKWK	1+++	+-+	1+1+		1111	114	1	=	tr	-	-	1111	1111	111	13.13	E	111	-	=	1 1 1 1	111	1111	13.13	=
Darie po	WKWK	+	++	++	4111	+1+	114	11.	THE	tr -+	-	+	+1+	111	+	1	111	+	+	-	111	1.13		1	11.1
numinin	WKW	+++	++	+++	+1+	1411	111	113	=	1+1+	+-+		-		=	-	3	# +	+ +	+	+-+	+	1.13	1	113
4	KWK	++	*++	*1.	+11	+-1	EE	E-1	100	*++	+	+	E	EIT	=	EE	ultroi Es	1	+	+	E	613	E		EED
24	WKWK	+++	+++	+	E 1 1	1111	111111111111111111111111111111111111111	1113	10	+	+	E		HI		C I	H	+	+ - +	1	E133	E H	1111	PIG.	HEL

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Symbols: K=Kingsbury antigen; W=Warsaw antigen; #=Complete agglutination; +=Partial agglutination; tr=Trace.

Table 1 records the tests carried out on three of the seven rabbits selected at random and shows a definite increase in agglutinins in these rabbits, reaching a maximum on the ninth day. The other rabbits, which are not recorded, also showed an increase in titer of their sera in about the same degree. The period of incubation of the disease in rabbits was about four to five days, so that the maximum titers actually occurred about two weeks after inoculation, which is about the same as observed in typhus fever. Sera from control rabbits never gave a positive test at any time.

### TEST III (HUMAN)

As human controls, the sera from 43 university students who had never had spotted fever or typhus fever were tested for agglutination titer against the Kingsbury and the Hygienic Laboratory strains of B. proteus X<sub>19</sub>. None of these sera gave a positive result. This test was made before we obtained the Warsaw strain.

Table 2 gives the results of tests on eight sera from spotted-fever patients against the Hygienic Laboratory strain of B. proteus  $X_{19}$ . Four were also tested against the Kingsbury antigen.

Table 2.—Results of tests on eight sera from spotted-fever patients

No.	Test institutes in long worth to	Anti-	Dilution											
	Patient data	gen	20	40	80	160	320	640	1,280	2,560				
1 2	J. P.: First week of convalescence. E. T. S.: Eighteenth day after onset—early con-	H. L.						-	-	-				
3	valescence. D. H.: Eleventh day of illness. J. W.: Fifteenth day of illness.	H. L. H. L.	1	1	1	1	1	1	+	-				
5	A. M. C.: Spotted fever in August, 1926. Blood taken Sept. 20, 1927	H. L.	=	-	+	=	-	=	Ξ	=				
6	M. I. N.: Spotted fever in August, 1926. Blood taken Sept. 20, 1927	K	-	-	-	7	-	7	7	1=				
7	L. McN.: Spotted fever in April, 1927. Blood taken Sept. 20, 1927.	K	-	-	2	-	+	+	±	=				
	J. T. B.: Blood taken seventh day of illness  Blood taken fourteenth day of illness during early	H. L.	+	+	+	+	+	+	=	=				
8	convalescence	K H. L.	+	+	+	=	+	-	=	=				
	Blood taken 2 months and 7 days after onset	K	-	-	2	-	-	-	-	-				

Symbols: H. L.-Hygienic Laboratory antigen; K-Kingsbury antigen; #-Complete agglutination; +-Partial agglutination.

#### DISCUSSION

It will be noted that the serum from patient No. 8 (Table 2) was tested on the seventh and fourteenth days after onset and again after complete recovery. This serum showed an increase in titer from the seventh to the fourteenth day. Sera Nos. 5 and 6 showed the presence of agglutinins more than a year after onset of illness, which suggests that agglutinins persist longer in the sera of spotted-fever patients than has been commonly observed in typhus fever.

Our results with the sera of Rocky Mountain spotted fever infected animals coincide with those obtained by others in the study of experimental typhus in that rabbits produce agglutinins for B. proteus X ... and guinea pigs do not.

In view of the clinical similarity of typhus fever and Rocky Mountain spotted fever, and the high titers obtained in our tests, we believe the finding of a positive agglutination in Rocky Mountain spotted fever is not accidental. While Kelly obtained a single positive test which could not be repeated, our tables show that the agglutinin content of the sera of both rabbits and man increases as the disease progresses and then decreases during convalescence. Such a result is strong additional evidence of relationship between the disease process and the agglutinin reaction.

## the Kingsbury avanture Laboratory attains Mr.

1. The sera from guinea pigs inoculated with Rocky Mountain spotted fever virus did not agglutinate two strains of B. proteus X 19.

2. Sera from rabbits similarly inoculated with spotted fever virus showed a definite increase in agglutinin content reaching a maximum titer on the ninth day after onset of symptoms, or the fourteenth day after inoculation.

3. The sera of human patients taken during the course of the disease and during convalescence showed the presence of agglutinins for two strains of B. proteus X19.

## THE NOTIFIABLE DISEASES IN STATES DURING 1927

#### Summary

The summary, published herewith, of the reported prevalence of communicable diseases in States during 1927 is taken from Supplement No. 73, which will soon be issued by the Public Health Service. The rates have been compiled from data furnished by the health officers of the several States, the District of Columbia, and the insular possessions. The following list of diseases is included in the supplement:

Anthrax in man. Chicken pox.

Meningococcus meningitis. Mumps. Cholera, oldal') & old traiting mor Pellagra, if tads betom od thin il Dengue.
Diphtheria.
Gonorrhea.
Influenza.

Plague (human.)
Pneumonia (all forms).
Poliomyelitis.
Rabies in animals. Lethargic encephalitis.

Rabies in man.

Rocky Mountain spotted fever. Measles. Scarlet fever.

Septic sore throat.
Smallpox.
Syphilis.
Tuberculosis (all forms and respiratory system).
Tularemia.

Typhoid fever.
Typhus fever.
Undulant fever.
Whooping cough.
Yellow fever.

For most of the diseases four tables are given: (1) Estimated expectancy, (2) morbidity, (3) mortality, and (4) morbidity, mortality, and case fatality rates.

The estimated expectancy represents an attempt to ascertain from the experience of recent years how many cases of the disease under consideration might have been expected in 1927.

In comparing the figures for 1927 with the estimated expectancy, or with reports for preceding years, it should be borne in mind that there has been a gradual improvement in the reporting of communicable diseases during the last few years. An increase in the number of cases reported may be due to better reporting of the particular disease rather than to an increase in the number of cases occurring.

In some instances comparatively large numbers of cases of diseases reported in certain States may be due to the system of reporting rather than to unusual prevalence of the diseases. For instance, in Mississippi physicians report some diseases monthly to the State health officer, giving the number of cases occurring in their practice during the month.

Similar tabulations of reported cases and deaths from communicable diseases, have been issued by the United States Public Health Service for the years 1912 to 1926, inclusive.

As long as the supply lasts, copies of this supplement may be had free, on request, by subscribers of Public Health Reports and others desiring them. Address The Surgeon General, United States Public Health Service, Washington, D. C.

## EUMMARY OF NOTIFIABLE DISEASES IN STATES, 1927

CHICKEN POX	half b
47 States: 1	1.10.50
Cases reported, 1927 (population 118,105,000)	217, 316
Estimated expectancy, based on years 1922-1926	166, 453
Cases per 1,000 inhabitants, 1927	1. 84
Cases per 1,000 inhabitants, estimated expectancy	1. 47
44 States: 1	
Deaths registered, 1927 (population 112,751,000)	151
Deaths per 1,000 inhabitants, 1927	0.001
	, 382. 65

The District of Columbia is also included.

### DIPHTHERIA

47 States: 1	
Cases reported, 1927 (population 118,105,000)	106 101
Estimated expectancy, based on years 1920-1926.	
Cases per 1,000 inhabitants, 1927Cases per 1,000 inhabitants, estimated expectancy	
45 States:1	
Deaths registered, 1927 (population 114,542,000)	8, 683
Deaths per 1,000 inhabitants, 1927	
Deaths per 100 cases, 1927	
GONORRHEA GONORRHEA	
39 States:	
Cases reported, 1927 (population 102,777,000)Cases per 1,000 inhabitants, 1927	
INPLUENZA	
45 States: 1	
Deaths registered, 1927 (population_114,542,000)	
empation of an incidital angular or and a few endings	
MEASLES MEASLES	
46 States: 1	441 010
Cases reported, 1927 (population 117,391,000)	
Estimated expectancy, based on years 1920-1926	The second section is a second section of
Cases per 1,000 inhabitants, 1927	3. 76
Cases per 1,000 inhabitants, estimated expectancy	3. 02
45 States: 1	4 100
Deaths registered, 1927 (population 114,542,000)	4, 122 0. 04
44 States: 1	
Deaths registered, 1927 (population 113,828,000)	4, 096
Deaths per 1,000 inhabitants, 1927	0. 04
Deaths per 100 cases, 1927	0. 94
MUMPS	
41 States:	
Cases reported, 1927 (population 102,686,000)	122, 474
Estimated expectancy, based on years 1922-1926	63, 288
Cases per 1,000 inhabitants, 1927	1. 19
Cases per 1,000 inhabitants, estimated expectancy	0. 63
42 States: Walter VI EBBANGE DEBANGE TO YEARING	3
Deaths registered, 1927 (population 109,131,000)	100
Deaths per 1,000 inhabitants, 1927	0. 001
38 States:	APHOL DE
Deaths registered, 1927 (population 98,103,000)	86
Deaths per 1,000 inhabitants, 1927	0. 001
Cases reported for each death registered, 1927	1, 337. 99
PELLAGRA	1001 1- 12
18 States:1	Mich Control
Cases reported, 1927 (population 53,282,000)	22, 080
36 States:	300
Deaths registered, 1927 (population 105,800,000)	5, 843
Deaths per 1,000 inhabitants, 1927	0. 06

<sup>&</sup>lt;sup>1</sup> The District of Columbia is also included.

### PNEUMONIA (ALL FORMS)

PNEUMONIA (ALL FORMS)	
45 States:1	
Deaths registered, 1927 (population 114,542,000)	92, 127
Deaths per 1,000 inhabitants, 1927	0. 80
POLIONYELITIS	BEL 7
45 States:1	
Cases reported, 1927 (population 113,722,000)	10, 151
Estimated expectancy, based on years 1920-1926	
Cases per 1,000 inhabitants, 1927	
Cases per 1,000 inhabitants, estimated expectancy	
45 States:1	
Deaths registered, 1927 (population 114,542,000)	2, 146
Deaths per 1,000 inhabitants, 1927	
Deaths per 100 cases, 1927	20, 990
Deaths per 100 cases, 1927	
SCARLET FEVER	160
47 States:1	
Cases reported, 1927 (population 118,105,000)	208, 893
Estimated expectancy, based on years 1920-1926	172, 887
Cases per 1,000 inhabitants, 1927	1. 77
Cases per 1,000 inhabitants, estimated expectancy	1. 55
45 States: 4 MAR GROUP TO STORD A MI STAR HTA	
Deaths registered, 1927 (population 114,542,000)	
Deaths per 1,000 inhabitants, 1927	0. 02
Deaths per 100 cases, 1927	1. 15
ser 1928, issued by the Metropolitair Life Insurance ( in	
trends community in xould be industrial insurance desert	
40 Chadana 1	
Cases reported, 1927 (population 115,567,000)	36, 315
Estimated expectancy, based on years 1920-1926	39, 090
Cases per 1,000 inhabitants, 1927	0. 31
Cases per 1,000 inhabitants, estimated expectancy	
Deaths registered, 1927 (population 114,542,000)	165
Deaths per 1,000 inhabitants, 1927	0, 001
Deaths per 100 cases, 1927	
As a second of the second of t	therete for
over Z garant canonital agest sents syphias the accuracy order or any	graft.
40 States: in Alamon had to have not write the W. and had at a runtand have	new Year
Cases reported, 1927 (population 102,854,000)	
Cases per 1,000 inhabitants, 1927	1 66
tait of Decouper, with more resent serious outbroads in various 1500	
TUBERCULOSIS (ALL FORMS)	o nut to
44 States: 1 He will write small a recommon and to down trapple incleaning	
Deaths registered, 1927 (population 114,465,000)	89, 014
Deaths per 1,000 inhabitants, 1927	0. 278
TUBERCULOSIS (RESPIRATORY SYSTEM)	unidanW.
43 States:1	paramana
Death and I soom ( ) I see any see any	objective co
Deaths registered, 1927 (population 110,596,000) Deaths per 1,000 inhabitants, 1927	0. 694
	11 604

benefit to be at abdenute ( ) and other than I

#### TYPHOID FEVER

46 States:1	
Cases reported, 1927 (population 115,680,000)	34, 411
Estimated expectancy, based on years 1920-1926	36, 724
Cases per 1,000 inhabitants, 1927	0. 30
Cases per 1,000 inhabitants, estimated expectancy	0. 34
45 States:1	
Deaths registered, 1927 (population 114,542,000)	6, 480
Deaths per 1,000 inhabitants, 1927	
Deaths per 100 cases, 1927	19. 91
WHOOPING COUGH	
47 States:1	
Cases reported, 1927 (population 118,105,000)	178, 455
Estimated expectancy, based on years 1922-1926	146, 706
Cases per 1,000 inhabitants, 1927	1. 51
Cases per 1,000 inhabitants, estimated expectancy	1. 30
45 States:1	S. Garage
Deaths registered, 1927 (population 114,542,000)	7, 220
Deaths per 1,000 inhabitants, 1927	0.06
Cases reported for each death registered, 1927	24, 48

## DEATH RATE IN A GROUP OF INSURED PERSONS

### Rates for Principal Causes of Death, November, 1928

The accompanying table is taken from the Statistical Bulletin for December, 1928, issued by the Metropolitan Life Insurance Co., and presents the mortality record of the industrial insurance department of the company, by principal causes of death, for November, 1928, as compared with October, 1928, and with November, 1927. The rates are based on a strength of approximately 18,500,000 insured persons in the United States and Canada.

The Bulletin states:

The November death rate among the industrial populations of the United States and Canada, was 8.2 per 1,000. This is well below the average mortality figure for that month.

There was an above-average amount of sickness from influenza during November, more particularly in the Far West. Up to the end of that month, nevertheless, the large number of cases reported had not been reflected in an increased death rate from influenza-pneumonia. Sickness from this disease increased during the first half of December, with more or less serious outbreaks in various parts of the country. During the first three weeks of December, death claims paid in the industrial department of the company's home office (for all causes combined), rose sharply from a total of 5,179 for the week ended December 1, to 6,429 for that ended December 22. In seven western States (California, Oregon, Washington, Utah, Idaho, Montana, and Colorado) deaths from influenza and pneumonia increased five-fold between November 12 and December 15, the rise being continuous from week to week.

With the exception of diabetes, heart disease, and accidents (the death rates for which were unchanged from those reported in November, 1927), and respiratory diseases, other than pneumonia, all of the causes of death listed in the table show improved death rates as compared with November of last year.

<sup>1</sup> The District of Columbia is also included.

# Death rates (annual basis) per 100,000 for principal causes of death [Industrial department, Metropolitan Life Insurance Co.]

the track to remove the may be removed to	Death rate per 100,000 lives exposed 1								
Causes of death	November, 1928	October, 1928	Novem- ber, 1927	Year, 1927					
Total, all causes	822.9	851. 9	861.2	887. 9					
Typhoid fever.  Measles. Scarlet fever.  Whooping cough. Diphtheris. Influenzs. Tuberculosis (all forms). Tuberculosis of respiratory system. Cancer. Diabetes mellitus. Cerebral hemorrhage. Organic diseases of heart. Pneumonia (all forms). Other respiratory diseases. Diarrhea and enteritis. Bright's disease (chronic nephritis). Puerperal state. Suicides. Homicides. Other external causes (excluding suicides and homicides). Traumatism by automobiles. All other causes.	1. 5 2. 8 14. 1 78. 6 65. 7 16. 4 51. 7 187. 3 63. 1 16. 8	4. 2 .3 1. 8 5. 0 9. 5 8. 6 83. 0 78. 1 77. 5 15. 8 64. 6 12. 6 8. 2 6. 5 7 21. 6 8. 7 21. 6 8. 9	4.3 1.0 2.6 3.9 12.5 11.2 80.3 71.2 74.5 16.4 53.9 137.0 66.8 15.1 28.4 1.7 7 63.2 21.1 196.8	4. 6 4. 1 3. 1 6. 4 10. 6 93. 6 93. 6 93. 6 93. 6 93. 6 93. 6 94. 3 11. 7 24. 6 95. 5 15. 5 15. 5 83. 7 7. 7 11. 7 24. 6 95. 6 95. 6					

<sup>1</sup> All figures include infants insured under one year of age.

### COURT DECISION RELATING TO PUBLIC HEALTH

Protection of junk piles required to prevent accumulation of water in containers resulting in breeding of mosquitoes.—(Arkansas Supreme Court; Yaffe v. City of Fort Smith et al., 10 S. W. (2d) 886; decided November 19, 1928.) The appellant operated a junk yard in the city of Fort Smith, and action was brought against him on the ground that the junk yard constituted a nuisance. The evidence tended to show that there were, among the junk, containers which held water; and that this condition would result in the breeding of mosquitoes which would affect the health of persons in the vicinity. The supreme court's holding is shown by the following quotation from the opinion:

The evidence in this case, however, indicates that appellant's junk piles may be so protected that no water can get into the containers and so protected that there may be no danger of breeding mosquitoes. And we think that the junk piles complained of should have a roof over them and be so protected that there would be no chance for water to accumulate in containers and no chance for the breeding of mosquitoes, and appellant should be required to do this without any unnecessary delay.

Appellant's business has been established for a number of years, and at the time it was established it was probably not an interference with the rights of any one. But it has become so because of the growth of the city and, having become so, the private rights of appellant must yield to the public good.

We have therefore reached the conclusion that the appellant should be required to protect the property, as above indicated, without unnecessary delay, and that

if he does not do so, he should be required to remove it. The appellant should be permitted to put a roof over his property and protect it in the manner herein indicated within a reasonable time. And, unless it is so protected that it will not be a nuisance, he should be required to remove it. He may be required to remove it at any time if it becomes a nuisance. The junk pile, of course, can be abated by proper proceedings if at any time hereafter it shall become a nuisance.

# DEATHS FROM INFLUENZA AND PNEUMONIA IN LARGE CITIES

Deaths from influenza and pneumonia in 78 large cities during nine weeks ended January 13, 1929. (From the Weekly Health Index, January 16, 1929, issued by the Bureau of the Census, Department of Commerce)

#### INFLUENZA DEATHS

				W	eek ende	d-			
City	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8,	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929
Total	91	105	203	291	477	765	1, 081	1, 424	1, 300
Akron Albany Albany Albany Albany Atlanta Baltimore Birmingham Boston Bridgeport Buffalo Cambridge Camden Canden Columbus Callas Columbus Callas Columbus Callas Columbus Callas Columbus Canden Columbus Canden Columbus Callas Columbus Co	0 0 1 3 3 0 0 2 1 1 1 0 0 0 0 1 1 1 8 8	0 0 0 0 1 1 2 2 0 0 1 1 1 2 0 0 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 10 4 4 2 2 2 2 0 0 0 0 3 10 0 0 2 2 1 1 28 2 2 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 10 6 4 4 2 0 0 33 6 6 2 0 0 0 58 6 4 4 5 4 4 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	18 13 38 8 0 6 6 0 1 1 80 0 5 5 25 10 0 19 22 2 8 7 0 16 16 16 16 16 16 16 16 16 16 16 16 16	14 3 51 17 11 13 0 0 4 2 104 2 2 104 2 2 18 2 2 2 55 13 64 2 2 10 3 3 1 5 4 18 12 2 15 2 8 14 32 2 0 0	5 4 4 31 31 90 90 4 4 19 19 10 15 5 5 7 7 9	40 108 119 12 12 12 12 12 12 12 12 12 12 12 12 12
Lowell Lynn Memphis Milwaukee Minneapolis Nashville New Bedford New Haven	0 0 0 1 1 0	0 0 2 0 0 2 0 2 0	1 0 1 0 2 1 0 0	0 0 2 2 2 2 2 0	0 2 3 2 2	1 1 3 10 21	0 2 11 10 24 8	42 23 27 13	36 20 35 1
New Orleans New York Newark, N. J Dakland Oklahoma City	5 8 2 3 3	14 0 5 1	9 11 0 11	5 15 0 3 3	12 16 1	37 25 2 7 7	53 46 3 7	84 65 12 5 11	22 5 10
omaha aterson Philadelphia Pittsburgh	0 0	0 0 7	0 1	0 1 14 5	0 0 16 17	2 34 64	0 47 144	7 56 177	10 72 98

# Deaths from influenza and pneumonia in 78 large cities during nine weeks ended January 12, 1929—Continued

### INFLUENZA DEATHS

	Week ended—												
City	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12 1929				
Portland, Oreg	0	3	4	-1	. 0	9	11	10					
Providence	1	0	1	0	0	1	0	2	11				
Richmond	0	0	0	1	3	0	4	17	2				
Rochester	o o	0	Ö	O O	0	1	0	3					
St. Louis	0	0	0	1	0	1	5	9					
st. Paul	0	1	0	ō	2	3	13	12	. 1				
alt Lake City		3	14	18	13	12	3	3					
an Antonio	1	1	3	6	6	4	8	11	1				
an Diego	1	Ô	6	11	16	8	6	3					
an Francisco	11	10	7	9	9	10	9	7					
chenectady	0	0	2	ő	0	1	0	. 4	7.504				
eattle	1	1	6	5	15	15	17	15	1				
omerville.	Ô	Ô	0	0			0						
pokane	0	1	0	6	8	11	9	7	*******				
pringfield, Mass		ô	- 0	. 0	1	î	0	1					
vracuse	1	0	0	0	Ô	3	6		1				
Pacoma.	Ô	0	0	0	1	3	10	4					
Toledo	1	. 4	9	5	21	27	39	16	2				
renton	- 1	0	i	1	0	2	0	6					
	Ô	0	1	Ô.	1	ō	ő	3	1				
Vashington, D. C.	1	1	0	4	7	3	7	10	9				
	Ô	0	1	0	0	0	0	5					
Waterbury	0	0	0	0	0	1	4	4	1				
Worcester.		0	0	0	0	0		F-13.100					
	0	0	0	0	1	0	9	2					
	0	0	0	0		. 0	15	22	20				
oungstown				*******			15	22	4 100				

## PNEUMONIA DEATHS

Total	687	791	853	1,000	1, 226	1,646	1,982	2, 469	1, 974
Akron	1	4	5	8	8	65	38	32	31
Albany	3	7	. 8	8	4	9	11	12	1 18
tlanta	4	. 5	10	8	14	26	28	19	
laltimore	24	32	25	35	37	27	51	65	94
lirmingham	6	6	10	9	- 9	4	7	65 27	44
loston	20	22	17	24	24	36	29	39	80
ridgeport	4	6	il	3	3	21	1	6	15
	15	11	15	15	24	33	36	47	6
									00
ambridge	2	2	2	1	3	2	6	7	1
amden	3	5	4	- 5	12	8	4	26	23
anton	2	2	. 5	3	6	15	12	19	
hicago	49	71	70	85	129	179	226	208	. 158
incinnati	10	15	14	13	11	13	26	63	56
leveland	7	13	14	17	19	35	60	. 106	124
olumbus	5	4	4	6	5	12	26	34	25
allas	11	2	4	2	1	11111	21	24	27
ayton	0		o l	7	3		13	13	
enver	1	2	12	22	51	28	22	16	14
	il	0	0	4	2	25.	6	8	5 / 7
es Moines									
1	31	25	38	39	35	57	112	160	134
uluth	2	1	1	5	1	2	0	1	. 9
Paso	2	3	2	5	6	11	6	6	
THE RESERVE THE PROPERTY OF THE PARTY OF THE	7	2	4	2	3	0	. 5	3	11
all River	1	2	0	3	1	5	7	17	1011.5
line -	41	5	9	11  -	2	4	12	17	26
ort Worth	3	6	1	3	3	7	11	12	13
rand Rapids	il	5	2	5	. 5	8	8	2	
ouston	2	11	4	8	12	17	20	3	
dianapolis	11	18	14	19	33	43	48	44	27
rsey City.	ii	12	6	8	12	18	17		20
rsey City.			5	5	31	12	6	23 12	7
ansasCity, Kans	5	1	15	15	29	52	12	23	10
ansas City, Mo	3	5							
noxville	3	6	1	4	1	18	9	18	26
IS Angeles	18	41	57	69	44	36	33	28	
	10	3	7	14	10	9	13	31	39
2W6II	2	3	1	2	4	4	2	5	4
HM	0	1	2	0	3	2	6	1	3
empus	8	7	3	17	5	10	12	25	
ilwaukee	5	3	8	8	4	22	36	40	- 43
inneapolis	16	4		15		14	23	21	33

Deaths from influenza and pneumonia in 78 large cities during nine weeks ended January 12, 1929—Continued

### PNEUMONIA DEATHS-Continued

	- Carlot			W	eek ende	d-			
City	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12 1929
Nashville New Bedford New Haven New Orleans New York Newark, N. J. Ooakland Oklahoma City Oomaha. Paterson. Philadelphia Pittsburgh Portland, Oreg. Providence Richmond Rochester St. Louis St. Paul Salt Lake City San Antonio. San Diego. San Francisco Schemectady. Seattle. Somerville Spokane. Springfield, Mass. Syracuse. Tacoma Toledo Trenton Utica. Waterbury Wilmington, D. C. Waterbury Wilmington, Del Worcester Youngstown.	8 2 8 19 5 4 0 3 8 2 2 2 2	21 22 150 100 4 6 5 22 437 5 5 3 6 6 6 22 5 5 3 6 6 6 12 1 7 1 1 3 3 8 1 6 8 3 7 7 12 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 2 3 3 12 167 8 11 11 12 7 7 7 2 2 5 4 4 8 8 3 0 0 2 6 5 5 5	10 4 1 15 173 14 6 6 10 10 3 3 70 16 4 4 7 7 4 4 3 3 2 2 2 2 2 3 6 6 5 5 5 5 5 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 6 6 16 2022 10 8 8 8 8 34 40 111 6 6 4 7 7 10 10 8 18 2 2 9 3 3 12 2 3 4 6 6 7 7 4 4 3 3 10 1 1 4 4 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 1 6 22 212 12 6 7 7 38 8 4 4 132 20 4 8 8 4 14 2 13 17 7 7 8 8 19 9 2 2 17 7 7 8 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 8 9 19 9 2 2 17 7 9 10 10 10 10 10 10 10 10 10 10 10 10 10	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 6 7 7 622 302 322 111 18 199 12 200 14 8 8 72 25 1 12 6 6 6 19 3 13 13 7 7 4 10 11 7 7 4 18 14 111 20 0 11 5 5 11 11	35 33 34 18 99 11 11 12 12 14 14 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19

Blank spaces indicate that no report has been received.

## DEATHS DURING WEEK ENDED JANUARY 12, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended January 12, 1929, and corresponding week of 1928. (From the Weekly Health Index, January 16, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 12, 1929	Corresponding week, 1928
Policies in force	72, 481, 951	69, 954, 836
Number of death claims	19, 561	15, 439
Death claims per 1,000 policies in force, annual rate_	14.1	11. 5

Deaths from all causes in certain large cities of the United States during the week ended January 12, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, January 16, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week en 12,	ded Jan. 1929	Annual death rate per		under 1 ear	Infant mortalit;
City	Total deaths	Death rate 1	rate per 1,000, corre- sponding week, 1928	Week ended Jan. 12, 1929	Corresponding week, 1928	rate, weel ended Jan. 12, 1929 i
Total (65 cities)	11, 701	20. 5	14.2	1, 039	797	19
Albany 4	50	21.7	17.4	4	4	7
Atlanta	113	23. 2	19.3	5 3	15	
Colored	45 397	( <sup>8</sup> ) 25, 0	16.9	34	20	10
White	311			20	14	8
Colored	86 262	61.6	18.1	14 21	5	22 19
White	144			- 11	1	16
Colored	118 296	19.4	16.4	10 26	19	22
Bridgeport	47			3 26	- 8	
Buffalo Cambridge	268 39	25. 2 16. 2	13.3		17	16 22 7 5 11 7
amden	61	23.6	12.1 12.0	7	4	12
Canton Chicago 4	1, 054	21. 0 17. 5	10.3	111	3 71	11
'incinnati	260			25	15	14
'leveland	417	21.6	10.2	39 16	21	11 15
Pallas	169	29. 6 25. 4	14. 9 18. 0	11	- 6	10
WhiteColored	106 86 20 100			8	4	******
enver	100	19.4	17.1	3	13	10
es Moines	40	13.8	15.8	0	3	10.50
DetroitDuluth	546	20.7	10.8	81	35	13
l Paso	24 52 66 52	23. 1	14.8 12.9	1 0	4 2	
rie 'all River	66 .	20. 2	12.5	3	6	6.
lint	66	23. 2 24. 8	9. 1 13. 5	5	6	18
ort Worth	66 81 72	24.8		8 5 8 6 2 3	8	********
Colored	72	(4)	( <sup>9)</sup> 8. 0	6 2	6 2	********
rand Rapids	9 44 117	14.0	8.0	3	2 9	4
White	117			8	9	
Colored	94 23 128	17.5	15.6	6 2	0	
ndianapolis	128	17. 5	15.6	14	9 8	111
Colored	17	(1)	(*)	1 10	1	6
ersey City Cansas City, Kans	118	19. 0 15. 9	(*) 11. 3 19. 9		13	60 77 133 76 538 98 173 193 0 76
White	118 36 27	and the second		6 3	6 5	76
Colored ansas City, Mo	9	13. 2 27. 8	14.6	3	1	538
noxville	99 56 56	27.8	21.3		6	178
White	56 -			. 8	0	195
Colored	308	(4)	(4)	26	26	76
ouisville	308 129	20.5	14.0	26 12	0	97
Colored	********	(4)	(5)	*********	0	
owell	30 _			3	4	68
ynn emphis	30 24 140	11. 9 38. 5	10.9 23.9	13	5 1 9 6 0 0 26 0 0 4 5 3 2 1 24 11	183 132 188 101 87 113
WhiteColored	88			7	2	132
Coloredilwaukee	52 210	20.2	12.3	. 6	1	188
indeadons	178	20.4	13. 2	14	11	87
ashville	116	43.4	20.6	7		113
Colored	71 -	(9)	(8)	3	3 3 5	65 252 129
ew Bedford	45 _			6	5	129
ew Haven	48 1	13.4	13.9	2	41	3

Deaths from all causes in certain large cities of the United States during the week ended January 12, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928—Continued

Guer 'nam'		ded Jan. 1929	Annual death rate per		under 1	Infant
City	Total deaths	Death rate 1	1,000, corre- sponding week, 1928	Week ended Jan. 12, 1929	Corre- sponding week, 1928	rate, week ended Jan. 12, 1929 <sup>‡</sup>
New Orleans White. Colored New York Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough. Richmond Borough Newark, N. J. Oakland. Oklahoma City Omaha. Paterson Philadelphia Pittsburgh Portland, Oreg. Providence Richmond White. Colored. Rochester St. Louis St. Paul Salt Lake City 4 San Anlono. San Drancisco. Schenectady. Seattle. Somerville. Somerville. Spyracuse. Spyracuse. Tacoma. Toledo. Trenton. Utica. Washington, D. C. White.	266 177 89 2, 133 278 746 847 7196 68 71 196 68 71 111 111 119 9 412 120 1369 84 176 187 388 115 199 52 86 30 126 630 126 630 126 640 148	32. 4  (9) 18. 5 15. 3 16. 9 25. 0 13. 8 16. 3 21. 0 13. 0 12. 2 20. 9 30. 0 17. 5 22. 7 13. 6 20. 9 32. 8 16. 7 21. 3 15. 7 9. 7 22. 9 18. 1 22. 6 14. 2 21. 0 25. 1 22. 7	20.6  (9) 15.0 12.3 12.5 22.1 9.8 15.6 12.1 13.4  14.1 10.1 13.5 15.8  14.0  (9) 14.8 11.4 19.7 13.5 13.8 14.6 12.2 14.9 15.4 11.4 11.4 11.4 11.4 11.4 11.5 15.8	15 5 100 192 31 64 65 5 30 2 21 2 2 6 6 77 1 1 66 33 3 1 1 0 1 1 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	11 8 3 207 28 700 87 20 21 21 25 3 0 48 21 11 5 6 6 7 7 7 5 3 9 1 10 4 4 5 3 1 5 3 4 6 4 4 4 1 2 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 6 4 6 6 4 6 6 4 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7/4 33: 165 77: 162: 122: 122: 122: 122: 122: 122: 123: 134: 144: 144: 144: 144: 144: 144: 14
Colored Waterbury Wilmington, Del Worcester Youkers Youngstown	92 22 35 51 43 77	(5) 14. 2 13. 5 18. 5 23. 1	14. 6 12. 4 12. 1 9. 9	12 6 5 4 1 7	6 1 3 4 5 8	227 1.52 130 50 23 101

The state of the s

<sup>&</sup>lt;sup>1</sup> Annual rate per 1,000 population.

<sup>3</sup> Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

<sup>3</sup> Data for 71 cities.

<sup>4</sup> Deaths for week ended Friday.

<sup>4</sup> Deaths for week ended Friday.

<sup>5</sup> In the cities for which deaths are shown by color the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

## UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

### Reports for Weeks Ended January 12, 1929, and January 14, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 12, 1929, and January 14, 1928

	Diph	theria	Influ	ienza	Me	asles		ococcus ngitis
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928						
New England States:								
Maine	1	2	722	3	216	59	. 0	. 0
New Hampshire			75		38		0	
Vermont			373	2	9	2	0	0
Massachusetts	117	129	1,976	10	792	1, 202	3	1
Rhode Island	6.	17	208	10	72	5	0	Ô
Connecticut	30	44	2,079	3	390	142	2	0
Middle Atlantic States:	30	**	2,019		300	114		
New York	283	421	1 2, 649	1 22	946	1, 119	37	2
New Jersey	164	198	2,474	24	189	188	9	3
Pennsylvania	162	251	2, 212	24	913	857	0	2
East North Central States:	102	201			913	801	. 0	40.
			4 990			100		
Ohio	64	195	4, 778	53	655	176	15	0
Indiana	53	47	986	33	134	. 87	0	0
Illinois	161	184	1, 240	33	339	. 58	7	9
Michigan	94	109	3, 394	9	94	354	18	1
Wisconsin	20	40	3, 830	87	191	28	. 10	3
West North Central States:								
Minnesota	17	39	252	1	121	6	3	. 2
Iowa	16	12	103			82	6	3
Missouri 2	67	46	3, 122	11	27	30	4	
North Dakota	4	9	546		10	1	3	3
South Dakota			264"	1	31	45	4	- 0
Nebraska	17	11	383	- 1	13	4	0	3
Kansas	21	32	1, 697	10	18	25	1	7
South Atlantic States:		0.2	1,001	***	40			
Delaware	3	1	155	2	41	17	0	. 0
	31	25	5, 816	49	46	249	2	1
Maryland 3 District of Columbia	8	32	567	2	2	240	0	
West Winding				31		71	3	U
West Virginia	21	14	13, 711	31	141		-	1
North Carolina	56	80			23	3, 689	0	0
South Carolina	20	49	6, 421	1, 439	5	1, 459	0	0
Georgia.	8	23	7, 739	184	59	173	1	0
Florida	6	28	820	11	2	7	0.	1

New York City only.
 Figures for 1929 are exclusive of Kansas City.

<sup>3</sup> Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 12, 1929, and January 14, 1928—Continued

	Diph	theria	Infl	ienza	Me	asles		goeoecus ingitis
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 192
East South Central States:	11000	0				TAX P	177	
Kentucky Tennessee Alabama Mississippi	7 26 34 9	13 17 33 16	6, 170 12, 599 19, 987 5, 030	8 141 224	28 69	51 445 165	0 1 0 2	
Mississippi West South Central States: Arkansas Louisiana Oklahoma <sup>4</sup>	8 20 35	19 29 55	5, 289 6, 163 9, 079	266 48 187	12 33 9	183 62 60	12 4 8	2 2
Texas Mountain States: M Montana	44	80	6, 695	65	89	36	1	
Idaho	4 1 4 6 8 10	1 18 7 35	9 311 117 - 125 10		5 3 13	81 46 27	0 2 6 2 7	
Utah 3 Pacific States: Washington Oregon	7 12 21	9 8 14	14 151 741	1 23 34	83 49	269 46	9	a
California	Polion	129 eyelitis	976 Scarle	t fever	26 Sms	96	Typhol	d fever
Division and State	Week ended	Week	Week ended	Week ended Jan. 14.	Week ended	Week ended.	Week	Week
	Jan. 12, 1929	Jan. 14, 1928	Jan. 12, 1929	1928	Jan. 12, 1929	Jan. 14, 1928	Jan. 12, 1929	Jan. 14, 1928
New England States: Maine New Hampshire	2	1.	22 7	26	1 0	0	0	1
Vermont Massachusetts Rhode Island Connecticut	0 1 0 0	0 6 0 0	13 262 19 50	364 38 112	0 0	0 0 0 53	0 2 0 0	
Middle Atlantic States: New York New Jersey Pennsylvania East North Central States:	0 2 0	6 1 3	505 131 261	626 205 450	1 0 0	18 0 0	15 2 5	15 5 20
Ohio Indiana Illinois Michigan Wisconsin West North Central States:	0 0 2 2 2 0	5 1 1 2 1	251 116 299 277 123	295 115 366 306 164	17 52 100 26 36	23 125 25 49 27	4 0 4 1 3	14 2 16 9
Minnesota Iowa Missouri  North Dakota South Dakota	0 1 0 0	1 3 2 3 0	114 114 75 24 33	137 84 98 29 40	2 11 44 5 28	3 100 51 6 7	0 0 1 1 2	
Nebraska	0	4	106	102	26 12	44 125	1 2	i
Delaware	0 0 0 0 0 2	0 1 0 4 1	62 15 40 53 13	5 69 37 56 81 10	0 1 0 16 16	0 0 17 106 33	1 3 0 6 0 5	10
Georgia	0	0	25 10	24	0	0	3	later 3

Figures for 1929 are exclusive of Kansas City.
 Week ended Friday.
 Figures for 1929 are exclusive of Oklahoma City and Tulsa and for 1928 are exclusive of Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 12, 1929, and January 14, 1928—Continued

	Polion	nyelitis	Scarle	t fever	Sm	allpox	Typho	id fever
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928						
East South Central States:								
Kentucky	0	0	0	58 21 16	17	27	2	1
Tennessee	0	1	20	21	0	27 28	3	
Alabama	0	ō	20 24	16	18	4	1	1
Mississippi	0	0	11	20	1	7	i	
West South Central States:					-		-	
Arkansas	0	0	27	26	1	9	12	
Louisiana	0	1	34	11	11	- 11	6	1
Oklahoma 4	1	1	21	41	62	201	8	-
		9	56	90	12	78		
Texas	0	-	.00		10	10	0	100
Montana States:	0	0	52	35	13	27	2	
	0	0	-4	25	28	ii	1	1
		0	32	34	5	18	ô	
Wyoming	0	2	5	151	0 8	18	0	
Colorado	0	0		101	5 0	10		
New Mexico			6			0		
Arizona	0	0	2	8	8		0	
Utah 3	0	0	12	17	10	33	0	
Pacific States:			-			-		
Washington	0	6	33	54	56	70	0	
Oregon	1	. 4.	23	32	56	49	0	
California	2	87	264	206	87	22	1	1

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
November, 1928 Colorado	10 3	90 143	132 388	i	30 28		0 1	110 447	14 106	19 24
Arizona	8 3 11 9	20 138 36 61 47 54 155 18	4, 143 460 611 5, 567 28, 003 659 18, 733 301	3, 642	33 784 1, 613 54 36 83 14 93	6 17	2 3 3 2 0 0 0 2	15 208 151 102 120 1 196 90	15 2 33 142 16 0 26 5	5 10 4 9 12 130 48 0

<sup>&</sup>lt;sup>1</sup> The 16 cases published in Public Health Reports dated Nov. 16, 1928, p. 3043, as botulism, upon later investigation were found to be food poisoning but not botulism.

November, 1928	November, 1988—Continued					
Chicken pox: Colorado Kansas German measles: Colorado Kansas	Cases 380 776 5	Impetigo contagiosa: Colorado	Cases 12 2 2			

<sup>&</sup>lt;sup>3</sup> Week ended Friday.
<sup>4</sup> Figures for 1929 are exclusive of Oklahoma City and Tulsa and for 1928 are exclusive of Tulsa.

Ophthalmia neonatorum:	Cases	Mumps:	Case
Kansas	. 1	Arizona	
Puerperal septicemia:	72	Connecticut	. 23
Colorado	. 1	Maine	21
Septic sore throat:		Nebraska	. 1
Colorado	. 1	North Dakota	. 1
Kansas		Porto Rico	. 2
Tetanus:		Tennessee	. 19
Kansas	. 1	Vermont	34
Tularaemia:		Ophthalmia neonatorum:	
Colorado	. 1	Connecticut	1
Kansas	. 4	Tennessee	. 1
Vincent's angina:		Paratyphoid fever:	
Colorado	. 6	Maine	. 1
Wheoping cough:		Puerperal fever:	
Colorado		Porto Rico	20
Kansas	. 231	Rabies in animals:	
D		Connecticut	. 4
December, 1928		Scables:	
Actinomycosis:		North Dakota	
North Dakota	1	Septic sore throat:	
Anthrax:		- Connecticut	
Connecticut	1	Maine	1
Porto Rico	. 1	Nebraska	2
Beriberi:		North Dakota	1
Porto Rico	2	Tetanus:	
Chicken pox:	-	Connecticut	1
Arizons		Maine	1
Connecticut	-	Porto Rico	17
Maine		Tetanus (infantile):	
Nebraska	1000	Porto Rico	29
North Dakota		Trachoma:	
Tennessee	100	Arizona	3
Vermont	132	North Dakota	5
Colibacillosis:		Porto Rico	1
Porto Rico	1	Tennessee	6
Conjunctivitis: Maine	77.1	Tularaemia:	
Dysentery:	1	North Dakota	1
Connecticut (bacillary)	2	Tennessee	2
Porto Rico		Vincent's angina:	
Tennessee	2, 130	Maine	8
Filariasis:	0	North Dakota	39
Porto Rico	4	Whooping cough:	
German measles:		Arizona	-10
Connecticut	63	Connecticut.	132
Maine	27	Maine	131
Nebraska	4	Nebraska	38
Lead poisoning:		North Dakota	61
Connecticut	1	Porto Rico	94
Lethargic encephalitis:		Tennessee	65
Connecticut	3	Vermont	244
Maine	1		
North Dakota	3		
Tennessee	1	the sale of the little of the sale of the little of the sale of the little of the sale of	
A CAMPOONE			

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 95 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,060,000. The estimated population of the 88 cities reporting deaths is more than 29,490,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

### Weeks ended January 5, 1929, and January 7, 1928

	1929	1928	Esti- mated expect- ancy		1929	1928	Esti- mated expect- ancy
Cuses reported  Diphtheria: 45 States 95 cities Measles: 44 States	1, 724 885 4, 598	1, 987 989 6, 980	1,551	Cases reported—Continued Typhoid fever: 45 States 95 cities	114 22	230 29	39
95 cities Poliomyelitis: 45 States Scarlet fever: 45 States 95 cities Smallpox: 45 States 95 cities States 95 cities	1, 185 14 3, 485 1, 157 623 21	3, 004 62 3, 861 1, 207 901 100	1, 368	Influenza and pneumonia: 88 cities Smallpox: 88 cities	3, 437	1, 085	

### City reports for week ended January 5, 1929

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1920 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

7, 3	- 2	Chick-	Diph	theria	Infl	ienza	Mea-	104	Pneu-
Division, State, and city	Population, July 1, 1926 estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
NEW ENGLAND		1		1		1.5		1.134	9.9
Maine:	200							1	26
Portland	76, 400	12	1	0	66	1	63	0	9
New Hampshire:	10, 100	3.7		-	1		-	1	
Concord.	1 22, 546	0	0	0	22	1	0	0	1
Manchester	84,000	Ö	2	3		0	0	0	6
Nashua	1 29, 723	Ö	0	0		0	Ŏ	0	. 0
Vermont:		100	2	1					
Barre	1 10, 008	0	0	0		0	0	5	0
Burlington	1 24, 089	4	0	0	11	0	0	5	1
Massachusetts:	11. 24.00						10.00	1	2 6 7
Boston	787, 000	82	55	29	224	4.	8	11	39
Fall River	131, 000	4	6	2	33	5	81	0	3
Springfield	145, 000	15	4	18	.4	1	210	4	3
Worcester	193, 000	14	6	3	2	0	15	3	5
Rhode Island:				10000				100	
Pawtucket	71,000	13	2	0	28 124	1	19	0	4
Providence	275, 000	0	11	8	124	2	10	0	9
Connecticut:	7 (1)	100		-				1	81 10
Bridgeport	164,000	- 4	8	. 5	219	3	17	.2	4
Hartford	164, 000	3	8	6	100	3	1	6	12
New Haven	182,000	31	. 3	1	16	0	2	1	7
MIDDLE ATLANTIC	100		200					9-30-11	
New York:	0.00	600					500		
Buffalo	544, 000	33	19	20	264	10	4	1	47
New York	5, 924, 000	274	220	247	965	55	78	76	302
Rochester	321, 000	30	12	7	214	3	18	16	7
Syracuse	185,000	19	7	. 1	564	9	1	3	17
New Jerzey:	100,000	10	12 1 20		001	Market .		and di	
Camden	131,000	3	7	2	4	22.12.4	. 2	1 0	26
Newark	459, 000	43	20	49	789	16	- 4	20	36
Trenton	134,000	1	. 5	7	103	Sec. 6	. 0	30 1	14

<sup>&</sup>lt;sup>1</sup> Estimated, July 1, 1925.

<sup>&</sup>lt;sup>2</sup> No estimate made.

City reports for week ended January 5, 1929-Continued

			Diph	theria	Infi	nenza			
Division, State, and city	Population, July 1, 1926 estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
MIDDLE ATLANTIC—con.		- 7 - 1						7.57	11/10
Pennsylvania: Philadelphia Pittsburgh Reading Scranton	2, 008, 000 637, 000 114, 000 143, 000	80 63 7 0	86 25 4 5	31 4 0 6	612 30	56 177 6 2	7 20 32 25	2 4 1 0	200 154
EAST NORTH CENTRAL	11								1
Ohio: Cincinnati	411, 000 960, 000 285, 000 295, 000	6 77 7 34	15 44 7 12	9 15 1 8	290 1, 287 386 16	45 65 33 16	1 161 2 3	0 2 0 1	63 100 34 18
Indiana:		10000	V. Church	7 1 7 1	-	100			
Fort Wayne Indianapolis South Bend Terre Haute	99, 900 367, 000 81, 700 71, 900	20 0 1	5 11 1 1	23 0 0	9	18 0 0	0 8 1 0	0 3 0 0	13 44 13 12
Illinois: Chicago Springfield	3, 048, 000 64, 700	90	95 2	110	343 44	67 4	58 1	5 0	208
Michigan: Detroit	3 1, 242, 044 136, 000 156, 000	71 16 7	71 8 4	71 2 1	1, 157 499 160	90 19 6	6 4 11	17 0 2	160 17 3
Wisconsin: Kenosha. Milwaukee. Racine. Superior	52, 700 517, 000 69, 400 1 39, 671	3 84 22 1	73 2 1	0 0 0	1, 253 43	1 23 0 0	5 81 22 0	0 4 0	7 40 3 2
WEST NORTH CENTRAL	00,011	31.00	1	-			-		1
Minnesota: Duluth Minnespolis St. Paul	113, 000 434, 000 248, 000	6 178 61	3 22 15	0 13 5	1, 327	4 27 16	1 36 4	12 6 5	1 21 10
Iowa: Des Moines Sioux City Waterloo	146, 000 78, 000 36, 900	0 3 1	4 2 0	4 1 0	0 0		0 0 2	0 1 31	
Missouri: Kansas City St. Joseph St. Louis	375, 000 78, 400 830, 000	11 2 46	10 2 52	4 1 52	2 209 91	9 4 9	47 0 7	7 0	0 6
North Dakota: Fargo Grand Forks	1 26, 403 1 14, 811	3 0	0	0	8	1	0	0	0
South Dakota: Aberdeen Sioux Falls	1 15, 036 1 30, 127	5	0	0	0		0 2	0	
Vebraska: LincolnOmaha	62, 000 216, 000	1 3	2 5	0 5		0	1 0	0	0 19
Topeks	56, 500 92, 500	26 2	2	0 3	23	7 3	6	0	4
SOUTH ATLANTIC		- 1						-	
Wilmington	124, 000	0	3	1 -		2	22	0	11
Baltimore Cumberland Frederick	808, 000 1 33, 741 1 12, 035	110	1 1	0 0	1, 745 58 4	31 4 1	30	70	0 1
Vistrict of Columbia: Washington	528, 000	42	22	19	658	10	1	0	20
Lynchburg	3 38, 493 174, 000 189, 000	5 5 0 0	2 3 8	1 0	1, 638 546	5	0	15	12 11
Richmond	61, 900		8 2	4 -	979	26 17	1.	0	13 5
Charleston	50, 700 1 56, 208	0	1 2	1	724	15	nresiden	46	6

## City reports for week ended January 5, 1929-Continued

	on det		Diph	theria	Infl	uenza	-		
Division, State, and city	Population, July 1, 1926 estimated	Chick- en pox, cases re- ported	Cases esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC-con.								nger m	
North Carolina: Raleigh Wilmington Winston-Salem	1 30, 371 37, 700 71, 800	4 4 16	1 1	1 1 2	10	12 4 0	0 0 1	0 0	0 1 8
South Carolina: Charleston	74, 100 41, 800	0	1 0	1	556	8 2	0	0	8 5
Georgia: Atlanta	(1)	4	4	3	776	30	0	1	19
Brunswick Savannah	1 16, 809 94, 900	0	0	1	456	10	0	0	7
Florida: Miami St. Petersburg Tampa	131, 286 <sup>3</sup> 47, 629 102, 000	2	5 0 2	3	77 15 124	0 3 . 2	8	1 0	6 2 1
EAST SOUTH CENTRAL					1			a design	
Kentucky: Covington Louisville	58, 500 311, 000	1 4	1 6	0 2	153 963	6 7	0	0	15 31
Tennessee: Memphis Nashville	177, 000 137, 000	. 0	7	3 2	6, 329	42 13	0	0	25 3
Alabama: Birmingham Mobile	211, 000 66, 800	4	4	7	4, 156 309	60 10	1 0	0	27
Montgomery	47, 000	1	1	0	482	A.1.	1	0	
Arkansas: Fort Smith	1 31, 643	9	1	0	710		1	0	3
Little Rock Louisiana: New Orleans	75, 900 419, 000	0	1 13	5	1, 307	84	1	13	62
Shreveport Oklahoma: Oklahoma City	59, 500 (3)	0	2	4	83 594	- 11	0	0	13
Tulsa Texas:	133, 000	23	2	3	0		0	9	
Dallas Galveston Houston San Antonio	203, 000 49, 100 1 164, 954 205, 000	1 0 1	11 2 6 2	0 9 6	100 72	0 17 8	0 2 1	0 0	5 46 12
MOUNTAIN Montana:	7			-0		3-7-	1/1		
Billings Great Falls Helena Missoula	1 17, 971 1 29, 883 1 12, 037 1 12, 668	6 24 0 0	1 0 0 1	0 0 0	³ <u>12</u>	0 3 0 0	0 41 2 0	0 18 0 0	0
Idaho: Boise	1 23, 042	0	0	0		0	1	0	0
Colorado: Denver Pueblo	285, 000 43, 900	13 7	10 2	7 0	119	19	0	21	16 3
New Mexico: Albuquerque Utah:	1 21, 000	0	0	1	4	1	0	0	2
Salt Lake City Nevada:	133, 000	36	3	1		3	0	42	1
Reno	1 12, 665	0	0	0	1	0	0	0.	0
PACIFIC	0							200	
Washington: Seattle Spokane Tacoma	(†) 109, 000 106, 000	15 15 8	5 2 4	0 0	20 128	4	0 12 0	4 0	4
Oregon: Portland Salem California:	1 282, 383 1 19, 709	6	11 0	12	52 30	10	38	. 2	20
Los Angeles Sacramento San Prancisco	(*) 73, 400 567, 000	23 2 6	1 44 3 19	15 1 6	388 14 52	25 4 8	4 0 0	20 7 5	28 2 11

<sup>&</sup>lt;sup>1</sup> Estimated, July 1, 1925.

<sup>&</sup>lt;sup>2</sup> No estimate made.

<sup>&</sup>lt;sup>3</sup> Special census.

<sup>1</sup> Estimated.

City reports for week ended January 5, 1929-Continued

	Scarle	t fever	1	Smallpo	X		Ty	phold f	ever	Whoop-	-
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths all causes
NEW ENGLAND								131			
Maine: Portland	2	6	0	0	0	0	0	1	0	3	18
New Hampshire:				-		10.0			0	0.000	115
Concord Manchester	0 2	7	0	0	0	0	0	0	0	0	3
Nashua	1	0	0	0	0	0	0	0	0	0	
Vermont: Barre	1	0	0	0	0	0	0	0	0	1	
Burlington	1	2	0	2	0	1	0	0	0	4	11
Massachusetts: Boston	82	73	0	0	0	12	1	0	0	24	243
Fall River	3	73 3	0	0	0	4	0	0	0	5	- 50
Springfield Worcester	10	14	0	0	0	0	0	0	0	3 4	51 58
Rhode Island:											
Pawtucket Providence	1 9	15	0	0	0	0	0	0	0	7 3	23 94
Connecticut:		0.00	200	0	TO STATE						
Bridgeport Hartford	10	. 3	0	0	0	0 5	0	0	0	2	36 56
New Haven	8 9	3 5	0	0	0	1	0	1	ő	2	38
MIDDLE ATLANTIC		100				201	-			- )(4)	
C. C. C. C.		17-	-		Carl	100	-	175	6		
New York: Buffalo	26	23	0	. 0	0	9	1	0	0	40	211
New York	231	23 166	0	0	. 0	114	11	3	1	51	1,709
Rochester Syracuse	15 13	3 9	0	0 2	0	1	0	0	0	21 22	78 89
New Jersey:							1 10			100	
Camden Newark	26	12	0	0	0	11	0	0	0	24	65
Trenton	4	- 3	0	0	0	5	o	0	0	0	56
Pennsylvania: Philadelphia	92	49	0	0	0	87	3	2	1	77	840
Pittsburgh	38	26	0	0	0	16	1	0	0	19	585
Reading	3 4	9	0	0	0	0	0	0	0	7	48
	-		. "				. 69	in i		100	
TRAL								Tel =		207	
Cincinnati	18	22 25	1	4	0	14	1	. 0	0	8	267
Cleveland Columbus	43 11	25	2	0	0	20 8	0	0	0	54	402 168
Toledo	15	6	i	0	0	8	ő	0	Ö	17	112
Indiana: Fort Wayne	5	0	1	0	0	0	0	0	0	0	34
Indianapolis	10	16	10	0	0	6	0	0	0	7	139
South Bend	4 3	1 2	0	0	0	1 1	0	0	0	0	23 28
Terre Haute	4				1						
Chicago	134	104	0	3	0	50	3 0	2	2	34	1, 052
Michigan:	2										
Detroit	98	119	1	1	0	25	0	2 0	0	71	576 49
Flint	12	13	1	0	0	2	1	0	0	9	48
Wisconsin:			-						0		17
Kenosha Milwaukee	31	40	0	0	0	0 8	0	0	0	5	198
Racire	31 7 3	4 3	0	0	0	1 3	0	0	. 0	8	19 17
Superior	8	3	1	0	0	3	0	0	0	0	
WEST NORTH CEN- TRAL					1		103	Take 1		1,000	
Minnesota:							1				26
Duluth	8 55 29	23 7	3 4	0	0	3 6	0 0	0	. 0	2	172 104
St. Paul		7	4	Ö	0	6	0	0	. 0	10	104
Des Moines	1	13	2	0			0	0		0	37
Sioux City Waterloo	8 2 2	34	2	. 0			0	0		3	·····i

# City reports for week ended January 5, 1929-Continued

or they	Scarle	t fever		Smallpo	X	A MOTO	Ty	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CEN- TRAL—contd.										1	7 34
Missouri: Kansas City St. Joseph St. Louis	15 3 43	13 2 33	3 0 1	0 0	0 0	5 3 15	0 0 1	0 0	0	6 0 22	130 34 310
North Dakota: Fargo Grand Forks	2	3 2	0	0	0	0	0	0	0	0	
South Dakota: Aberdeen Sioux Falls	1 2	0	0	. 0			0	0	******	0	
Vebraska: Lincoln Omaha	2 5	8	2	0	0	0	0	0	0	0	70
Kansas: Topeka Wichita	2	1 3	0	1 0	0	0 3	0	0	0	6 3	21
SOUTH ATLANTIC		-								11 (-)	100
Delaware: Wilmington Maryland:	6	1	0	0	0	4	0	0	0	1	86
Baltimore Cumberland Frederick	32 1 0	26 2 0	0	0	0	23 0 0	0 0	0	0 0	61	326
District of Col.: Washington	24	19	0	0	0	8	1	1	0	16	19
Virginia: Lynchburg Norfolk Richmond Roanoke	1 2 6 2	0 1 5 5	0 0	0 1 0	0 0 0	1 4 3 0	0 0	0 0	0 0	3 0 1 0	90 43
West Virginia: Charleston Wheeling	2 2	0 1	0	0	0	1 1	0	0	0	0 12	30
North Carolina: Raleigh Wilmington	1 0	0 0 1	0 0 1	0	0	0	0 0	0	0 0	0 0	2 H
Winston-Salem South Carolina: Charleston Columbia	0 0	1 1	0	0	0	1 0	0	0	0	0	45
deorgia: Atlanta	4	16	2	0	. 0	5	0	0	. 0-	.1	127
Brunswick Savannah Florida:	0	3	0	. 0	0	0	1	2	. 0	2	41
Miami St. Petersburg Tampa	0 1	3	0 0	0	0	0 3	0 0	2	0 0	0	27 14 31
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Fennessee:	2 6	6 17	0	1 0	0	2 6	0	0	0	0 5	127
Memphis Nashville	6 2	11	1 0	0	0	7 4	1	0	0	7	- 147 68
Birmingham Mobile Montgomery	4 0 0	6 3 2	0 0	0 0	0	7 0	1 0 0	0	0	3 0 0	201 32
WEST SOUTH CENTRAL				41	0	0	0 1				eger (V)
Arkansas: Fort Smith Little Rock Louisiana:	1 2	2 6	0	0	0	0	0 0	0	0	0	
New Orleans Shreveport	5 2	7 3	0	0	0	18	3 0	1 0	2 0	0	320 44

City reports for week ended January 5, 1929-Continued

6 - 1	Scarle	t fever		Smallpo	X	Tuber-	T3	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	re-	Deaths re- ported	culosis, deaths re- ported	esti-	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CEN- TRAL—contd.		*									
Oklahoma: Oklahoma City Tulsa	3 2	1 2	1	1	0	1	0	0	1	0	63
Texas:											
Dallas	4		1				0				
Galveston	0 3	1	0	0	0	5	0	0	0	0	138
Houston	3	5	2	1	0	12	0	0	0	1	82
San Antonio	2		0	1	0	12	0				04
MOUNTAIN	-							1 -	100		3m 1
Montana:								-			10.7
Billings	2 2 1	2 0	0	0	0	0	0	0	0	0	7
Great Falls	2	0	1	0	0	0	0.	0		5	8
Helena	1	2	0		. 0	0	0	0	0	0	
Missoula	1	1	0	0	0	0	0	0	0	0	6
Idaho:		. 0	0	0	0	0	0	0	0	0	
Boise Colorado:	2						0	0		0	***
Denver	11	4	2	1	0	10	0	0	1 0	0	115
Pueblo	2	0	0	0	0	0	0	0		0	10
New Mexico: Albuquerque	1	0	0	0	0	2	0	0	0	9	15
Utah:	1	0	0	0	0	-	0				10
Salt Lake City.	3	4	2	3	0	1	0	1	0	2	32
Nevada:						-		-			-
Reno	0	0	0	0	0	0	0	0	0	0	6
PACIFIC	. 1										
Washington:			- 1					1	- 3-		
Seattle	10	3	0	1			1	0		8	
Spokane	8	6	2 4	0			Ô	0		0	
Tacoma	3	0	4	0	0	0	0	0	0	- 4	41
Oregon:										1	17/
Portland	7	3	8	25	0	5	1	0	0	- 1	113
Salem	Ö	0	0	0	0	0	0	0	0	0	
Los Angeles	27	40	4	0	0	38	1	3	1	38	349
Sacramento	2	13	2	0	0	2	0	0	. 0	0	31
San Francisco.	16	12	î	1	0	19	0	0	0	5	173
can riancisco.	40	4.00				140					

		goeoceus ingitis		nargie halitis	Pell	lagra	Poliom	Poliomyelitis (infantile paralysis)			
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths		
NEW ENGLAND		-	1.13	1							
Massachusetts: Boston MIDDLE ATLANTIC	0	1	0	C	0	0	0	1	0		
New York: Buffalo New York !	0	1 10	0	0 2	0	0	0	0 3	0 2		
New Jersey: Newark Trenton	3 1	0	2 0	0	0	0	0	0	0		
Pennsylvania: Philadelphia Pittsburgh	0	0	1 0	0	0	. 0	0	0	0 1		

<sup>&</sup>lt;sup>1</sup> Typhus fever; 1 case at New York City.

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## City reports for week ended January 5, 1929—Continued

-ol-moilulmoop	Menin men	goeoecus ingitis	Lett	hargie halitis	Pel	lagra	Poliom	yelitis ( paralysi	infantile ()
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
EAST NORTH CENTRAL	1290	dino	100	15.7	T to I	( pp)	1, 10	poly	
Ohio:	1824	13100	11 (10)	214	JOHN THE	C=01.11	14	MFT	
Cincinnati	2 0	0	0	0	0	0	0	0	1
Toledo	0	Ō	ō	î	Ö	Ö	Ö	0	1
Indiana: Indianapolis	0	4	0	0	0	0	0	0	
Illinois: Chicago	14	12	10 119	11. 21.0		1		Still A	COLL
Michigan:	133	4 .	1	1	0	0	0	0	
DetroitWisconsin:	13	5	2	1	. 0	0	0	0	
Milwaukee	2	1	0	0	0	0	0	0	
Racine	1	0	0	0	0	0	0	0	(
Superior	U	1	. 0	0	0	0	0	0	. (
WEST NORTH CENTRAL	1	77							
Minnesota: Duluth	0	1	0	0	0	0	0	0	
Minneapolis	1	1	1	1	0	. 0	0	0	0
St. PaulIowa:	0	0	0	1	0	0	0	0	
Sioux City	1	0	0	0	0	0	0	0	
Missouri: Kansas City	6	4	0	1	0	0	0	0	
St. Louis	8	5	0	0	Ö	0	0	0	- (
North Dakota: Fargo	3	. 0	1	1	0	0	0	0	
Nebraska: Omaha	1	0	. 0	0	0	0	0	0	. 0
SOUTH ATLANTIC	1 153		130		3				1147
Maryland:					3				
Baltimore	3	1	0	0	0	0	0	0	. 0
District of Columbia: Washington	1	1	0	0	0	0	0	. 0	
Georgia:							- 1		A TELL
Savannah	0	0	0	0	1	1	0	0	. 0
Tampa	0	0	0	. 0	1	0	0	0	0
EAST SOUTH CENTRAL	30	-	2-		-	1 1		-	
Tennessee:	E 1934		THE						
Memphis	1	1	0	0	0	0	0	0	0
Montgomery	0	0	0	0	1	0	0	0	. 0
WEST SOUTH CENTRAL		100	10.3	1					
Arkansas:								1	
Little Rock oulsiana:	0	0	0	0	. 0	1	0	0	0
New Orleans Shreveport	0 2	0	0	0	2 0	3	0	0	0
WARS.	15/5					0	0	0	. 0
San Antonio	0	0	0	0	0	0	0	0	0
MOUNTAIN	100	4	071	3		N- 1		1170	
olorado: Denver								-	
CMB:	1	1	0	0	0	0	0	0	0
Salt Lake City	2	1	0	0	0	0	0	0	. 0
PACIFIC			9.0	- 24	18		2 .	1 1716	111
alifornia:	-			10		1000		4112 1001 6	ndia.
Los Angeles Sacramento	2 2	0 3	0	0	0	0	. 0	0	1
San Francisco	4	0	0	0	0	0	0	0.00	. 0

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended January 5, 1929, compared with those for a like period ended January 7, 1928. The population figures used in computing the rates for the week of 1929 and corresponding week of 1928 are approximate estimates as of July 1, 1929 and 1928, respectively, authoritative figures for many of the cities not being The 98 cities reporting cases had estimated aggregate populations of approximately 31,570,000 in 1929 and 31,050,000 in The 91 cities reporting deaths had nearly 30,000,000 estimated population in 1929 and nearly 29,500,000 in 1928. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 2, 1928, to January 5, 1929-Annual rates per 100,000 population compared with rates for the corresponding period of 1927-28 1 DIPHTHERIA CASE RATES

	8, 10, 1928         1927         1928 1927         1928 1927         1928 1927         1928 1927         1928 1927         1928 1927         1928 1927         1929 1928         31, 5, 1929         1927 1929           164         204         157         204         144         201         **131         185         **148           209         216         226         200         189         193         170         165         163           159         228         139         225         145         232         155         220         178           190         227         209         247         166         212         **132         200         153           148         129         148         129         138         123         119         125         161           139         189         121         139         117         143         *101         128         711         125         161         138         711         125         161         138         711         125         161         138         712         95         112         88         256         215         248         215         188         339         172										
	8,	10,	15,	17,	22,	24,	29,	31,	5,	Jan. 7, 1928	
98 cities	164	204	157	204	144	201	1 131	185	3 148	1 17	
New England Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain	159 190 148 139 125 256	228 227 129 189 71 215	139 209 148 121 85 248	225 247 129 139 127 215	145 166 138 117 105 188	232 212 123 143 127 339	155 132 119 101 95 172	220 200 125 128 112 261	178 153 161 7 111 88 * 95	140 200 170 98 160 100 240	
Pacific										12	
	1 11	MEAS	LES C	ASE 1	RATES	7		*			
98 citles	146	225	181	247	176	284	1 160	321	* 197	• 510	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	187 193 53 15	199 140 49 525 365	91 194 271 84 15	205 117 46 604 527	68 251 224 49 20	250 157 38 794 710	77 3 217 201 6 69 15	330 159 46 828 396	230 198 7 115 14	917 468 263 133 4 1, 409 2, 118 203 60 384	
	SCA	RLET	FEVE	R CAS	E RAT	reb		A Trans	yexter.		
98 citles	200	184	201	211	185	186	2 180	209	195	4 206	
New England	237 141 260 263 165 259 216 80 197	321 156 216 206 133 81 116 305 151	223 143 290 251 149 209 172 62 181	326 196 243 204 162 142 170 242 154	241 144 234 240 161 200 100 27 197	281 173 212 202 144 117 91 170 191	308 138 * 204 261 * 129 259 160 27 151	346 200 257 192 148 117 124 233 125	296 148 239 258 155 197 133 113 185	340 196 233 203 4 158 63 101 195 184	

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1929, 1928 and 1927; respectively.

² Cincinnati, Ohio and Greenville, S. C., not included.
³ Brunswick, Ga., and Dallas, Tex., not included.
³ Cincinnati, Ohio, not included.
³ Greenville, S. C., not included.
³ Brunswick, Ga., not included.
³ Brunswick, Ga., not included.
³ Dallas, Tex., not included.

Summary of weekly reports from cities, December 2, 1928, to January 5, 1929— Annual rates per 100,000 population compared with rates for the corresponding period of 1927-28—Continued

### SMALLPOX CASE RATES

	4		ede.		Week e	ended-				
arun di	Dec. 8, 1928	Dec. 10, 1927	Dec. 15, 1928	Dec. 17, 1927	Dec. 22, 1928	Dec. 24, 1927	Dec. 29, 1928	Dec. 31, 1927	Jan. 5, 1929	Jan. 7, 1928
98 cities	4	13	8	19	8	16	14	15	13	41
New England	2 0 10 2 0 20 4 0 8	0 0 4 75 7 5 8 90 30	0 0 16 0 2 5 24 44 20	0 0 17 115 5 5 0 117 31	2 0 4 6 0 0 40 44 56	0 0 12 77 20 20 12 99 26	2 0 13 10 12 5 12 35 15	0 0 12 79 4 10 4 143 29	0 1 6 2 70 7 8 5 35 5	10 * 1; 10 2
	TY	РНОП	FEVI	ER CA	SE RA	TES				
98 cities	9	11	5	8	4	11	15	7	14	41
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain. Pacific.	5 7 7 4 7 20 48 0 5	12 8 9 14 9 30 21 9	7 4 1 4 5 15 16 9 8	0 8 3 6 9 35 17 18 16	2 4 1 2 7 5 8 9 10	9 10 8 8 16 25 17 9 10	2 4 4 4 6 5 5 8 9 8	14 4 5 10 13 10 21 18 0	5 2 3 0 79 0 85 9	4 17 26
	IN	FLUE	NZA D	EATH	RATE	s		100		
91 cities	48	12	76	14	112	17	1 173	10	-1 230	4 20
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	9 17 18 43 51 58 53 513 294	9 7 9 6 16 58 47 9	9 27 44 116 95 68 94 734 317	12 9 11 6 14 64 55 9	14 66 124 147 123 58 209 593 213	5 11 13 10 20 48 72 27 24	14 129 \$ 206 169 \$ 262 193 373 265 182	5 14 10 8 22 58 81 72 31	48 165 238 240 7 345 970 8 555 218 134	16 13 10 6 4 23 130 83 53
1 1 h. +	PN	EUMO	NIA D	EATH	RATE	s	ke et i	5		1.1138
91 cities	156	110	212	118	241	135	3 303	156	3 381	4 175
New England Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific.	80 149 135 126 165 282 176 336 294	51 119 97 99 135 154 102 215 110	108 190 171 212 237 188 181 628 223	102 117 97 91 161 149 191 134 131	159 246 255 205 226 188 250 398 169	121 126 105 97 182 213 229 242 166	159 293 3 385 242 4 333 246 402 363 169	146 158 135 108 184 191 306 197 138	201 395 466 216 7 353 533 503 174 148	103 186 140 187 4 238 208 241 195 175
<sup>2</sup> Cincinnati, Ohio, and Gree <sup>3</sup> Brunswick, Ga., and Dalls <sup>4</sup> Atlanta, Ga., not included <sup>5</sup> Cincinnati, Ohio, not included <sup>6</sup> Greenville, S. C., not included <sup>8</sup> Brunswick, Ga., not included. <sup>8</sup> Dallas, Tex., not included.	ided.	, not inc	cluded.	io:	#17/03 #17/03 #1 06	.0370	1245 7 1	Jac I	\$ 10 a	112

Number of cities included in summary of weekly reports, and aggregate population of cities of each group, approximated as of July 1, 1929 and 1928, respectively

Group of cities	Number of cities reporting	Number of cities reporting	of cities cases	population reporting	Aggregate of cities deaths	cities reporting	
allelen T	cases	deaths	1929	1928	1929	1928	
Total	- 98	91	31, 568, 400	31, 052, 700	29, 995, 100	29, 498, 000	
New England	12 10 16	12 10 16	2, 305, 100 10, 809, 700 8, 181, 900	2, 273, 900 10, 702, 200 8, 001, 300	2, 305, 100 10, 809, 700 8, 181, 900	2, 273, 900 10, 702, 200 8, 001, 300	
West North Central South Atlantic East South Central West South Central	12 19 6	19	2, 712, 100 2, 783, 200 767, 900 1, 319, 100	2, 673, 300 2, 732, 900 745, 500	1, 736, 900 2, 783, 200 704, 200	1, 708, 100 2, 732, 900 682, 400	
Mountain	9	9	598, 800 2, 090, 600	1, 289, 900 500, 200 2, 043, 500	1, 285, 000 598, 800 1, 590, 300	1, 256, 400 590, 200 1, 551, 200	

### FOREIGN AND INSULAR

### THE FAR EAST

Report for the week ended December 29, 1928.—The following report for the week ended December 29, 1928, was transmitted by the eastern bureau of the health section of the secretariat of the League of Nations, located at Singapore, to the headquarters at Geneva.

Plague, cholera, and smallpox were reported at the following ports:

PLAGUE

India.—Bombay—plague-infected rats. Siam.—Bangkok—death on vessel from Singapore, arriving at Bangkok.

CHOLERA

India.—Tuticorin, Negapatam. Siam.—Bangkok. Indo-China.—Saigon. SWALLPOX

India.—Bombay, Negapatam. French India.—Pondicherry. Indo-China.—Saigon. Dutch East Indies.—Samarinda. China.—Hong Kong, Shanghai.

### CANADA

Provinces—Communicable diseases—Week ended December 29, 1928.—The Department of Pensions and National Health reports cases of certain communicable diseases from six Provinces of Canada for the week ended December 29, 1928, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Total
Cerebrospinal fever				4, 125	17	42	4, 18
Smallpox Typhoid fever	1	2	8	1 8	2	6	1

Nova Scotia—Smallpox outbreak, January 14, 1929.—Twelve to fifteen cases of smallpox were reported, January 14, 1929, near Shubenacadie, Nova Scotia, Canada, in a district which supplies milk to Halifax. The type of the disease was said to be virulent. Quarantines have been established at several houses, and the milk supply from a number of dairies was stopped by the authorities.

Ontario Province—Influenza—Week ended December 29, 1928.— During the week ended December 29, 1928, 4,125 cases of influenza were reported in the Province of Ontario, Canada. There was no unusual virulence, and complications were few.

25500°-29-3

Quebec Province—Communicable diseases—Week ended December 29, 1928.—The Bureau of Health of the Province of Quebec reports cases of certain communicable diseases for the week ended December 29, 1928, as follows:

Disease	Cases	Disease	Cases
Chicken pox Diphtheria German measles. Influenza Measles Poliomyelitis.	22 51 1 529 20 1	Scarlet fever Smallpex Tuberculosis Typhoid fever Whooping cough	58 66 4 11

In s - The Department of Penetons and Arthur Pickith reports

then rests of entallipox were reported, daminer 14 1929, from some

Ontario Praciness Induces of their main the which the same at the Burney the work codes December 29, 1928, 4,125 cases of tallness as were reported in the Province of Outario, Caresta, There was to

trust a standard of thorres was stoomed by the natherness.

for vine work ended December 23, 1928 as Inforest. C.

### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, health section of the League of Nations, and other sources. The reports contained in the following table must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given:

C indicates cause: D. deaths: P. present!

The state of the s	May			Inle	Ane	Sent	7				Week ended-	-pep				
Place	PP.	June 8-30, 1926	10.28 10.28 10.28	4 3 4	a Ea	#SE	Oct.		November, 1928	er, 1928		+	Dec	December, 1928	828	
Triple Lynn	1928			1928	1928	1928	1928	00	97	11	8	-	00	15	8	8
Ceylon: Colombo	O		-													
Ingiriya Province.	AD		-							1					1 1	
China: Canton	0	-	90	*	1		1								64	
Kwantung-Dalren		C4	00	04	-8										1	
Shanghai	ADI			8	-01	4 4 4										
Swstow	900	69	7			80							1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Duco Kast Indies: Java—Batavia.	C 30, 177 D 20, 162	31,346	44,240	52, 786	32, 287 17, 731	17,028	4,976	3,006	4,714	3, 279	3,369					
Bassein Bombay		œ												8 E E E E E E E E E E E E E E E E E E E		
Calcutta		462	-8:	· 8:	*85	-=8	1	-4:	3	3	250	19	1			
Madras		n a	323	2655	338		88	348	79:	97	33:	223	8=	18		
Madras Presidency	1,314	878		771	28	1		26	21	78	10	15	9	9		
Moulmein.		004	5 0 0 0 0 0 0 0 0 0													
Nogapatam				00	-1-	1					1		1			-
Kangoon. Tutlearin	000	40		2 × -	200	-01-					400	e4-	-		98	
Vicamenton	Q		1			***************************************			1		-				2	18

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

CHOLERA—Continued

Alder Adem				1		Comt				M	Week ended-	-pa			
Place	June June	June 3-30,	July 1-28,	A P	Sept.	2 4 5 8	Oct.	Z	November, 1928	1928	_		December, 1928	er, 1928	
The state of the s	1928		TAGE .	1928	1928	1928	1928		10	11	*	-	8	15	22
India (French): Chandennagor Karikal Pondicherry Province Indo-China (see also table below): Paggon Tourane Japan: Osaka Kwangchow-Wan (see table below): Philippine Islands: Philippine Islands: Plandors Malolos Pamplona Ballesteros Pamplona Sancher-Mira Gebu (port). Ilocos Norte Province			MH 888 85881	1 - a	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	87-08-ES	4044	884444	<b>⊒∞4∞</b>	Stop Hau	නු ප ප ත තු ප	<b>→∞</b>   23	89-1-1-37-	8 HH	

	202	144	123	25 18 18 14	101	5.00	52.00	+ 00	200	82				84
	88		884		1.04-	300	1000 H		0101	30 t-	994-	64 64 H		110-0-008
Nondpuri. D Smud Prakar. D Smud Sagara. D Trad. C							9.5	and the second	h°	90	No.	2500	84	
On vessel. S. S. Glenapp, at Yokohama, from Shanghai. C. S. S. Kambangan at Batavia from Jedda via Sabang and Palembang. S. S. Tairea at Penang from Madras via Negapatam.				- L	8 8 8 6 8 8 8 8 8 8 8 8					4 1 1				
page 1		January- March,	April-	July,	Au-	Sep- tember,	0	October, 1928	88	N	November, 1928	1928	Decem	December, 1928
Indo-China (French) (see also table above): .		1928	1928	1 3	S =	INES	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20
Cambodia Cochin-China Tonkin	0000	1,407	1,668	327	188°	28	.00	28	8	Z	4.8	21.2		221
Kwangchow-Wan	0		16	-	-	0 1						0 0		

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE

May 7  May 7  May 8  May 9  Ma	The state of the s											Week ended-	paper				
1 1 2 3 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1 2 3 1 1 1 1		May 6 June 2 1928	3-30, 1628,	18.8	Aug. 25, 1928	Aug. 26 Sept. 22, 1928	Oct. 20,	Oct.	4	Tovemb	er, 1928				Decen	December, 1	December, 1928
2					18	Ţ.z.		1928		10	11	8	-		00	8 15	
2	Algeria (see also table below):	0		1000	19												
2	Oran Philippeville						-81				2			1 1 1			
	Argentina: 1		-														
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Avellaneds.																
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18 plague-infected rats were reported at Buenos Aires, Argentina, from July 1 to Dec. 31, 1928.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE—Continued
[C indicates cases; D, deaths; P, present]

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Place	May 6- June 2,	June 3-30,	July 1928,	July 29- Aug. 25,	July 29- Aug. 26- 8 Aug. 25, Sept.	Sept. 23, Oct. 20,	1	-	November, 1928	er, 1928			Decen	December, 1928	88		Jan
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Hawaii Territory—Hawaii: Hamakua District Hamakua Plague-infected Hamakua Plague-infected Fulkainaie Plague-infected rais Kukainaie Plague-infected i Pasulio Pasulio Bassein Bassein Flague-infected rais	Cacoura Madras Presidency Rangoon Virgapatam Indo-China (see also table below)	Pnompenh Balgon Plague-infected rats.	Baghdad. Plague-infected rats Kwangehow-Wan (see table below).	ole belo elow):	elow):	Ayadbaya
/-Hav sar-lot- a-Plage-info pe-info Plage	idency.	fected	facted (see	also tal	ion. slow). table b	
Territory—Hawai makun Districus Hondsan Hondsa	on Press	yenh.	egue-in	Matave  (see also table below)  Ose also table below)	Asunc able b Lisbon e also	aya
Hama Hama H. H. K. K. K. K.	Madra Rango Viraga	Prompenh Salgon Plague	Plague Frangehow-W	Madagascar (eee also table belt Tamatave	Paraguay: Aguncion.  Peru (see table below).  Portugal: Lisbon.  Benegal (see also table below):  Thiss and vicinity.	Ayudh
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE-Continued

	*										Week ended-	-pap				
Place	May 6- June 2, 1928	June 3-30, 1928	July 1-28,	July 29- Aug. 26-8 Aug. 25, Sept. 0 1928 22, 1928	Aug. 26 Sept. 22, 1928	Sept.23- Oct. 20, 1928	1	Z	November, 1928	r, 1928		-	Decemi	December, 1928		Jan
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S. S. Halydan, at Bangkok, from Singapore. D							1								****	

December:  Nigeria  Nigeria  Lima  Lima  Cayor  Cayor  Fatick  Louga  Ruffeque  Thies  Tivaouane  Syria: Beirut	Nige Peru Sene 1	Nigeria C Place  Nigeria C Peru C D Peru C D D D D D D D D D D D D D D D D D D	Nigeria	Nigeria	Nigeria	Nigeria
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FLAGUE RATS ON VESSELS Steamship Sicily at Liverpool from Buenos Aires and Rosario, June 8, 1928, seven plague-infected rats.

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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.—Continued

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Brazil (see also table below): Pernambuco (Recife). Rio de Janeiro.	-		1				1 1		1								11
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Ninnipeg and vicinity		7		140							13	04	-			-	-
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

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# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

### SMALLPOX-Continued

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Place	May 6- June 2, 1928	June 3-30, 1928	7ely 1928,	A SA	Ne proper	S S S S S	Oct.	Z	November, 1928	r, 1928			Эесеш	December, 1928	88	-	January, 1929
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Mexico (see also table below)—Continued.			7.5		15	-			1			12			0		-
nd surrounding territory	800	64		00 04						100					•	0	
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	A DO					-			-								
	ADA	228	8							-		61					
Portugal (see also table below): Lisbon.	2 00	7								-							
Senegal (see also table below): Dakar		500															
	2000	3	-	100 64		8		1			10						111
Bangkok Straits Settlements: Singapore Sudan (Anglo-Egyptian).	- 88	-88	141	252	152	** <b>2</b>	150	1,	-	22	- 182	1 2	148		102	157	129
Sudan (French) (see table below). Syria (see table below).			8								•	3	•	2	3		
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Union of South Africa: Cape Province.	00		-			_	- 4	<u>a</u>	۵,	_	_ d	- d	Ь	-	_		-	
Orange Free State. Transvaal Upper Volta.	0000		20	-44	Ь		4.0	1	249	140			1					
Venezuela: Maracaibo. On vessel: 8. Ballarat, en regite to Cape Town, 8. South Africa.							8-			-			0 0	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
S. E. Theeeus, from Jeddah to Penang. S. S. Victoria at Nome, Alaska.	000		<u> </u>	oc	-										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Place					April	July.		gust.	Septe	September, 1928	1928		October, 1928	1928	ž	November, 1928	, 1928	Dec.
The second secon					1928			1928	1-10	11-20	21-30	1-10	11-30	21-31	1-10	11-20	21-30	1928
Indo-China (see also table above)				00	197		80	12	200	83	17	88	61	\$	55	57	32	18
Senegal (see also table above)				ADA	==	111	64		+									
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Guayaquil	35 E	28 93	88 0	g-e	emm .	9-		Nigeria (s Portugal	Nigeria (see also table above) Portugal (see also table above)	lso tabl	e above ble abov	(e)	20202	25. 1. 85. 1. 85. 1. 82. 1. 83.	150 55	4   2 0	2 12	e4

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

### TYPHUS FEVER

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Place	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1028	A B	Sept.	a oa	Oct.	Z	November, 1928	er, 192			Dece	December, 1928	8281	
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China: Manchuria—	1		8 8 0 0 0 0	0 0 0 0 0	0 0 0 0 0						-					
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Tientsin Chosen (see table below). Czechoslovakia (see table below). Erypt			0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
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# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

TYPHUS PEVER-Continued

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Place	-		Jun	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	Aug. 25,	Sept.	Bog tig	Oet.	Z	ovembe	November, 1928	-	9	December, 1928	r, 1928	
				-	200		1928	1928	1928	1928	69	10	17	75		8 15	81	.8
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Natal Transman Transman Transman Transman Transman Transman Transman Transman Transman Socialist Soviet Republics (see table below).	le below)		2000	10A-1	a.a.	222	Ь	1	44	- A	4	AA	24	Pr Pr				
Same of the same same same Place	Jan- uary- March, 1928	April- June, 1928	July- Sep- tem- ber, 1928	Octo- ber, 1928	No- vem- ber, 1928	De- Der, 1928			Place				Jan- uary- March, 1928	April- June, 1928	July Sep- tem- ber, 1928	Octo- ber, 1928	No.	Der, Der,
Chosen	58825-24		10 00 00 00 00 00 00 00 00 00 00 00 00 0				Mexico Peru: Are La Vinche Cuion Cuion Rai Tra	kioo (see also tahu: Arequipa Lia Oroya Lia Oroya Regilist S Railways, etc. Transcatosaus,	o tab	de above) oviet Rep	publics:	0 0000 0 00		1 25		- 1 90		
Lithuania D	អន្តជ	162.7	72,		•	I	Yug	Other terr Yugoslavia	Other territories in Europe.	Europ	9	ACCA	5, 167 34 34 35 34	55	100		71	

YELLOW FEVER
[C indicates cases; D, deaths; P, present]

											W	Week ended-	-per				
Place	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	July 29-Aug. 25, 1928	Aug.26- Sept. 22, 1928	Sept. 23-Oct. 20, 1928	Oct.		November, 1928	er, 1928			December, 1928	ber, 19	28	7	January, 1929
							1928	00	10	17	24	-	00	15	22	29	- 12
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Abidjan On vessel: S. S. Bernini, at Santos, Brazil.			-	1 1 md 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													111 1
S.S. Victoria, at Manaos from Para, Brazil. C		6 0 0 0 0 0						1 1			1 1	6 E	8 8 8 8 8 8	1 1	1 1 1 1 1 1		1